

Title (en)  
FLUOROPOLYMERS RESISTANT TO STRESS CRACKING

Title (de)  
SPANNRISSBESTÄNDIGE FLUORPOLYMERE

Title (fr)  
FLUOROPOLYMERES RESISTANT A LA FISSURATION SOUS CONTRAINTE

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Application  
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Abstract (en)  
[origin: WO03006516A1] The invention provides a fluorothermoplastic composition comprising interpolymerized units derived from about 94 to about 97.5 mole percent (mol%) tetrafluoroethylene (TFE), about 2 to about 3 mol% perfluoro (propyl vinyl ether) (PPVE), and about 0.5 to about 3 mol% hexafluoropropylene (HFP). The invention also provides a fluorothermoplastic composition comprising interpolymerized units derived from about 94 to about 97 mol% TFE, about 0.75 to about 3 mol% PPVE, and about 1.5 to about 3.5 mol% HFP. These fluorothermoplastic compositions have a flex life that fits the equation:  $\log(\text{flex life cycles}) \geq 0.71 + 4.0 * (\text{MFI} < (-0.294) >)$ . The invention also provides a method of making fluorothermoplastic compositions and a method of improving stress crack resistance. The invention also provides fluorothermoplastic articles.

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